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1. N11A-T017: Underwater Sensor System Autonomous Burial and Operation

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop innovative approaches to autonomously install, bury, power and communicate from a bottom mounted underwater sensor systems DESCRIPTION: Underwater surveillance in shallow water requires rapidly deployable systems which feature autonomous sensor installation with enhanced survivability against commercial fishing. In addition to rapid deployment, the need exists to bury sensors ...

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2. N11A-T018: Automated Situational Understanding for Undersea Warfare Decision Support

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: This topic seeks to develop and deploy an innovative information processing capability that can provide Anti Submarine Warfare (ASW) operators with enhanced operational insights, alerts, advisories and recommendations based on deeper situational understanding inferred from not only traditional ("hard") data sources, but also non-traditional ("soft") information sources (that are current ...

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3. N11A-T019: High Fidelity Digital Human Models for Protective Equipment Design

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop comprehensive high fidelity physics based digital human model to simulate human movement, study behind armor blunt trauma as well as the internal effects of ballistic penetration. DESCRIPTION: The Office of Naval Research (ONR) has been investigating modeling efforts as a means to produce cost effective tools which will be utilized during design and evaluation of per ...

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4. N11A-T020: Visible Electro-Optical (EO) System and LIDAR Fusion for Low Cost Perception by Autonomous Ground Vehicles

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a low-cost perception/classification system for the joint exploitation of LIDAR and passive multi-spectral data obtained across the visible spectrum employing self-calibrating algorithms for use in autonomous ground vehicles DESCRIPTION: Unmanned Ground Vehicles (UGVs) are an important part of the Navy"s ongoing technology strategy. The developing autonomy capabilities of to ...

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5. N11A-T021: Low Power, Long Life, Smart ISR Sensors

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Provide very low to ultra low power smart ISR sensors to enable long term unattended situational awareness. DESCRIPTION: Battlefield threat identification and intrusion warning remains a high importance topic to OSD, Navy and Marine Corps. For applications such as securing high valued assets to securing areas of interest, the life expectancy of the energy source and processing po ...

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6. N11A-T022: Hybrid Technologies Amplifier Chain for> 30 Gbps Per Data Link Energy Efficient Digital Output from 4K

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective is to demonstrate means of transporting high speed, digital data from 4K to 300K via a well integrated set of technologies that will minimize the heat loading on the low temperature stages. DESCRIPTION: After the inherent inefficiency of 4K coolers is considered, the consumption of wall power by Nb superconducting digital logic in performing its calculations is 100x sma ...

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7. N11A-T023: Enhancing System Software Resiliency via Function-Level Artificial Diversity

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop function (component) level artificial diversity in a computing system, and evaluate its capability and performance. DESCRIPTION: To achieve information dominance, the Navy requires information assurance within its information infrastructures. Today"s networked computer systems are exposed to compromises, creating potential for system and application damage which impact per ...

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8. N11A-T024: Development of an EO/IR Common Aperture Modular Multifunction Sensor

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To explore and develop the technologies needed to combine a number of passive and active electro-optical functions, currently being accomplished through multiple apertures, into a single aperture. DESCRIPTION: Electro-optical surveillance and targeting systems are very numerous in the DOD and involve substantial complexity. They usually consist of large focal plane imagers, lasers a ...

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9. N11A-T025: Low-Power Arctic environmental sensors for UUVs

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: With the increased interest in Arctic environmental prediction and sensing, new sensors are required to make the observations needed to enable integrated earth system models to accurately forecast future environmental conditions in the Arctic. UUVs can be used to increase the sensing capability in the Arctic, but they require the development of new sensing technologies to allow adequate ...

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10. N11A-T026: Low cost acoustic transmitter

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop, fabricate, and demonstrate an acoustic transmitter consisting of an underwater acoustic projector, a self-contained very high efficiency power amplifier, signal generation and control circuitry, and a long endurance power supply. An innovative utilization of new transduction technology, integrated power amplification and a novel energy source is desired that can be compact and ...

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